KRUPENIKOV, I.A.

First observations of the extent of chernozem soils in North America.
Izv.Vses.geog.ob-va 86 no.3:292-294 My-Je '54. (MLRA 7:6)
(United States--Chernozem soils) (Chernozem soils--United States)

POLYNOV, Boris Borisovich, akademik; KRUPENIKOV, Igor' Arkad'yevich; KRUPENIKOV, Lev Arkad'yevich; TYURIN, I.V., akademik, otvetstvennyy redaktor; MARKOV, V.Ya., redaktor izdatel'stva; PAVLOVSKIY, A.A., tekhnicheskiy redaktor

[Vasilii Vasil'evich Dokuchaev; a sketch of his life and works] Vasilii Vasil'evich Dokuchaev; ocherk zhizni i tvorchestva. Moskva, Izd-vo Akademii nauk SSSR, 1956. 276 p. (MLRA 9:12)
(Dokuchaev, Vasilii Vasil'evich, 1846-1903)

KRUPENIKOV, I. A.

USSR / Forestry. Dendrology. K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100154

Author : Krupenikov, I. A.; Sbeyntsis, O. G.
Inst : Odessa Hydrometeorological Institute
Title : Suitability of the Tamarisk to the Saline Soils of the Northwestern Part of the Black Sea Coast

Orig Pub : Tr. Odessk. gidrometeorol. in-ta, 1958, No 16, 103-110

Abstract : It was found that Tamarix tetrandra and T. ramosissima grow successfully around Odessa on heavily saline carbonate, sandy, and clayey soils where the level of mineralized subsoil water is high. Here the plants can bear as much as 1% of salts per liter of subsoil water. The upper soil layer under a tamarisk dries out, while the lower layers have a constantly high moisture content. The lowland parts of the coasts Black, Azov, Caspian, and Aral Seas can be planted with belts of tamarisk which

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USSR / Forestry. Dendrology. K

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No. 100154

will protect other species, further inland, from the sea spray. -- L. V. Neamelov

Card 2/2

11

KRUPENIKOV, I.A.

Associations of filtering halophytes. Trudy OGMI no.16:111-115 '58. (MIRA 12:9)
(Halophytes) (Plant communities)

KRUPENIKOV, I.A.; SHKYNTZIS, O.G.

Growing conditions of juniper and thuja in saline seashore soils.
Trudy OGMI no.18:59-68 '59. (MIRA 13:5)
(Odessa region--Juniper) (Odessa region--Thuja)
(Plants, Effect of salts on)

KRUPENIKOV, I.A.

Nikolai Aleksandrovich Dimo; obituary. Zool.zhur. 38 no.12: 1904-1906 D '59. (MIRA 13:5)
(Dimo, Nikolai Aleksandrovich, 1873-1959)

KRUPENIKOV, I.A., kand.geologo-mineralogicheskikh nauk

Buried soils of the lower Trajan's Wall and some problems of the science of paleosols. Okhr.prir.Mold. no.1:55-69 '60. (MIRA 15:2)
(Moldavia—Roman walls)

KRUPNIKOV, I.A., kand.geologo-mineralogicheskikh nauk

Forest soils of southern Moldavia in connection with forest protection and regeneration. Okhr.prir.Mold. no.1:70-76 '60.
(MIRA 15:2)

(Moldavia--Forest protection)(Forest soils)

KANIVETS, I.I., otv. red.; DIKUSAR, I.G., red.; KRUPENIKOV, I.A., red.; KHARITONINA, A.A., red.; LEDVICH, M.M., tekhn. red.

[Effectiveness of fertilizers in Moldavia]Effektivnost' udobrenii v usloviiakh Moldavii. Kishinev, Izd-vo "Shtiintsa," 1961. 123 p. (MIRA 16:2)

1. Moldavskiy nauchno-issledovatel'skiy institut pochvovedeniya i agrokhimii imeni N.A.Dimo.
(Moldavia--Fertilizers and manures)

KRUPENIKOV, I.A., otv. red.; DIKUSAR, I.G., red.; ZASLAVSKIY, M.N., red.; LUNEVA, R.I., red.; URSU, A.F., red.; KHARITONINA, A.A., red.; POLONSKIY, S.A., tekhn. red.

[Transactions of the Dokuchaev Conference, commemorating the 60th anniversary of the publication of V.V.Dokuchaev's work "Problems of the soils of Bessarabia."] Trudy Dokuchaevskoy konferentsii posviashchennoi 60-letiiu vykhoda v svet raboty V.V.Dokuchaeva "K voprosu o pochvakh Bessarabii," 1960. Kishinev, Izd-vo "Shtiintsa, 1961. 222 p. (MIRA 15:7)

1. Dokuchayevskaya konferentsiya, posvyashchennaya 60-letiyu vykhoda v svet raboty V.V.Dokuchayeva "K voprosu o pochvakh Bessarabii",1960. 2. Pochvennyy institut imeni N.A.Dimo , Moldaviya (for Krupenikov, Zaslavskiy, Luneva, Ursu).
(Moldavia--Soils)

KRUPENIKOV, I.A., kand. geologo-mineral. nauk; RODINA, A.K.; STRIZHOVA, G.P.; URSU, A.F.

Chernozems of the northern half of Moldavia. Izv. Mold. fil. AN SSSR no.7:3-23 '61 (MIRA 17:7)

KRUPENIKOV, I.A.; RYABININA, L.N.

Soils and vegetation of the Pugoy Forest. Okhr. prir. Mold. no.2:57-66 '61. (MIRA 15:8)
(Pugoy region--Forest soils)

SPASSKIY, A.A., otv. red.; AVERIN, Yu.V., doktor biol. nauk, red.; VERINA, V.N., red.; KRUPENIKOV, I.A., kand. geol.-miner. nauk, red.; ODUD, A.L., kand. geogr. nauk, red.; POKROVSKIY, V.S., kand. biol. nauk, red.; USPENSKIY, G.A., kand. biol. nauk, red.; SHAPOSHNIKOV, L.K., kand. biol. nauk, red.; POSAZHENIKOVA, Ye., red.

[Transactions of the Fifth All-Union Conference on the Conservation of Nature] Trudy Vsesoiuznogo soveshchaniia po okhrane prirody. 5th. Kishinev, Kartia moldoveniaske, 1963. 267 p. (MIRA 17:11)

1. Vsesoyuznoye soveshchaniye po okhrane prirody. 5th, Kishinev, 1962. 2. Predsedatel' Komissii po okhrane prirody AN Moldavskoy SSR (for Odud). 3. Starshiy nauchnyy sotrudnik Komissii po okhrane prirody pri Gosplane SSSR (for Pokrovskiy). 4. Vitse-prezident AN Moldavskoy SSR. Deystvitel'nyy chlen AN Mold.SSR (for Spasskiy). 5. Zaveduyushchiy laboratoriyey pochvovedeniya Instituta pochvovedeniya i agrokhimii im. N.A.Dimo (for Krupenkov). 6. Institut zoologii AN Moldavskoy SSSR (for Averin).

GOGOLEV, I.N.; KRUPENIKOV, I.A.

Scientific symposium "Soils in the southwestern U.S.S.R."
Pochvovedenie no.3:114-121 Mr '64. (MIRA 17:4)

KRUPENIKOV, I.A.; LEYB, Kh.I.

Alluvial soils, their characteristics, utilization and place in the overall system of soil conservation. Okhr. prir. Mold. no.[illegible]-33 '65. (MIRA 18:10)

KRUPENIKOV, I.A.; URSU, A.F.; BALTYANSKIY, D.M.; KODINA, A.K.; IOFFANOVA, L., red.

[Zoning of soils according to agricultural use in the Moldavian S.S.R.] Agropochvennoe raionirovanie Moldavskoi SSR. Kishinev, Kartia moldovenieske, 1965. 167 p. (MIRA 18:11)

~~ARKAD~~ KRUPENIKOV, LEV ARKAD'YEVICH

[illegible], Boris Borisovich, akademik; KRUPENIKOV, Igor' Arkad'yevich; KRUPENIKOV, Lev Arkad'yevich; TYUKIN, I.V., akademik, otvetstvennyy redaktor; MARKOV, V.Ya., redaktor izdatel'stva; PAVLOVSKIY, A.A., tekhnicheskiy redaktor

[Vasilii Vasil'evich Dokuchaev; a sketch of his life and works] Vasilii Vasil'evich Dokuchaev; ocherk zhizni i tvorchestva. Moskva, Izd-vo Akademii nauk SSSR, 1956. 276 p. (MLRA 9:12)
(Dokuchaev, Vasilii Vasil'evich, 1846-1903)

1. KRUPENIKOV, Ya.

2. USSR (600)

4. Land - Classification

7. North Russian people's classification of usable lands and soils of the 16th - 18th centuries. Pochvovedenie, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. KRUPENIKOVA, I., KRUPENIKOVA, L.

2. USSR (600)

4. Geology and Geography

7. Vasiliy Vasilevich Dokuchayev (Biography), I. Krupenikova and L. Krupenikova. (Moscow, Young guard, 1948). Reviewed by Yu. G. Saushkin, Sov. Kniga, No. 12, 1948.

9. [redacted] Report U-3081, 16 Jan. 1953. Unclassified.

L 41050-66 FBD/EWT(1)/EEC(k)-2/T/EWP(k) IJP(c) WG

ACC NR: AP6018456 SOURCE CODE: UR/0051/66/020/006/1088/1089

AUTHOR: Krupenikova, T.; Chayka, M.

61
60
B

ORG: none

TITLE: Lifetime determination for the $2p^5 3p(2p_4)$ state of neon

SOURCE: Optika i spektroskopiya, v. 20, no. 6, 1966, 1088-1089

TOPIC TAGS: ~~[illegible]~~, gaseous state laser, laser modulation, laser R and D, laser theory, laser emission, electron transition, optic modulator, light modulator, magnetic modulation, laser emission coherence

ABSTRACT: The authors found the lifetime for the $2p^5 3p(2p_4)$ state in neon to be approximately $0.6 \cdot 10^{-8}$ sec while the bandwidth of this emission is estimated to be 26 Mhz. The deviation of these results from the theoretical values may be explained by the influence of depolarizing collisions. Radiation in a direction perpendicular to the laser axis was measured using a small segment of the laser tube between two Helmholtz coils as the course. The externally applied magnetic field controlled the coherence and hence the amplitude of the laser output. The population of the $2p^5 3p(2p_4)$ level is due to spontaneous transitions as well as transitions from the $2p^5 4s(2s_2)$ level caused by the applied field. The latter induced transitions are responsible for the coherence. As the degree of coherence increases, so does the intensity of the ra-

UDC: 535.373.3 : 546.292

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L 41050-66

ACC NR: AP6018456

diation in the direction normal to the laser axis, while the intensity of the conventional, axial beam simultaneously decreases. This phenomenon was used to set up a system for the synchronous detection of the coherent component of $2p^53p(2p_4)$ radiation. The effect of the applied dc magnetic field on the magnitude of the detected signal was investigated. The authors thank A. Razumovskiy for assisting in the work. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 28Dec65/ ORIG REF: 002/ OTH REF: 002

Card 2/2

L 7694-66 EWT(m)/EWP(1) RM

ACC NR: AP5028736 SOURCE CODE: UR/0363/65/001/011/2031/2038

AUTHOR: Fedoseyev, A. D.; Grigor'yeva, L. F.; Chigareva, O. G.; Krupenikova, Z. V.; Rozhnova, G. A.

ORG: Institute of Silicate Chemistry im. I. V. Grebenshchikov, Academy of Sciences, SSSR (Institut khimii silikatov, Akademii nauk SSSR)

TITLE: Asbestos type synthetic fibrous fluosilicates, their properties and potential uses

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 11, 1965, 2031-2038

TOPIC TAGS: asbestos product, synthetic fiber, fluoroamphibole, fluosilicate, fiber crystal, crystallization, thermal stability, tensile strength, heat resistance, chemical stability

ABSTRACT: Certain experimental data are presented on the preparation and properties of the fibrous fluoroamphiboles. The data were obtained in a systematic study of asbestos-type fibrous silicates, which has been conducted at the Institute of Silicate Chemistry, AN SSSR. This study was prompted by the recently developed interest in synthetic asbestos materials which may be substituted for natural asbestos and may also find new technical applications because of the widely varied composition and properties. The data presented concern crystallization from fluxed melt of the fluoro-

Card 1/2 UDC: 54-114

L 7694-66

ACC NR: AP5028736 2

amphiboles of the general formula: $X_{2-3}Y_5[Si_4O_{11}]_2(F, Cl, OH)_2$ where X is Na^+ and Y is Mg^{2+}, Mg^{2+} and Fe^{3+}, Mg^{2+} and Ni^{2+}, Mg^{2+} and Co^{2+}, or Mg^{2+} and Cr^{2+}. Moreover, a lithium-magnesium fluoroamphibole was synthesized. The effects were determined of temperature (850—1050C) and fluorine content in the charge on the habit and mineralogical composition of the fluoroamphibole crystals. The conditions were optimized for obtaining the highest content of the fibrous variety in the product. Crystal optical constants and parameters of the unit cell were determined for the six synthesized fluoroamphiboles. A comparative study was made of the thermal, mechanical, and chemical properties of the fluoroamphiboles and some natural asbestos. Thermal stability of the fluoroamphiboles was found to be 100—150C higher than that of the natural amphibolic asbestos. The chromium fluoroamphibole was the most stable. Acid- and alkali-resistance of the fluoroamphiboles, except the lithium-magnesium fluoroamphiboles, was equivalent to that of a natural asbestos. Tensile strength, the most important characteristic, was found to be of the same order of magnitude in synthetic fluoroamphiboles as in natural asbestos of various origin and in whiskers of refractory oxides. Tensile strength decreased after heat treatment at a temperature of 150 to 200C higher in the fluoroamphiboles than in a natural asbestos. The potential uses of the synthetic fluoroamphiboles include industrial filters, fillers in rubber products and thermally resistant glues, gaskets in high-pressure or high-vacuum apparatus, fire protective and heat insulating materials, and structural reinforcing fillers in the new [unnamed] materials. Orig. art. has: 1 figure and 6 tables. [JK]

SUB CODE: MT/ SUBM DATE: 31May65/ ORIG REF: 007/ OTH REF: 010/ ATD PRESS: 4141

Card 2/2

A. STEPIN, L.P.

"The Development of a Method of Densitometry for Thr e-Emulsion Color Film." Cand Tech Sci, All-Union Sci-Res Cine-Photographic Inst, 30 Dec 54. (V., 22 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556 24 Jun 55

KOROSTYLEV, B.N., kand.tekhn.nauk [translator]; SPASOKUKOTSKIY, N.S., kand. khim.nauk [translator]; KRUPENIN, L.K., kand.tekhn.nauk, [translator]; KOZLOV, P.V., doktor tekhn.nauk, red.; CHEL'TSOV, V.S., kand.khim.nauk, red.; SERDYUKOV, I.V., red.; SMIRNOVA, M.I., tekhn.red.

[Photographic materials and their processes; a collection of translations] Fotograficheskie materialy i protsessy ikh obrabotki; sbornik perevodov iz inostrannoi periodicheskoi literatury. Moskva, Izd-vo inostr. lit-ry, 1957. 319 p. (MIRA 11:5)
(Photography)

KRUPENIN, L.K.

"Photographic sensitometry [in French]" by M. Roulleau. Reviewed by L.K. Krupenin. Zhur.nauch.i prikl.fot.i kin. 2 no.2:158-159 Mr-Ap '57. (MLRA 10:5)

(Photographic sensitometry)
(Roulleau, M.)

KIRILLOV, N.I.; YERMOLAYEVA, N.I.; KRUPENIN, L.K.; KIRILLOVA, N.Ye.

Investigating the hardening of positive color film during its processing. Zhur.nauch.i prikl. fot. i kin. 6 no.2:81-86 Mr-Ap '61. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut.
(Color photography—Films)

BARANOV, G.S.; KATSENELENBOGEN, E.D.; KLYUYENKOVA, Ye.I.; KRUPENIN, L.K.

Sensitometry of reversal color films. Usp. nauch. fot. 8:210-215 '62. (MIRA 17:7)

S/058/63/000/003/052/104
A062/A101

AUTHORS: Krupenin, L. K., Baranov, G. S.

TITLE: Calibration methods of color densitometers

PERIODICAL: Referativnyy zhurnal, Fizika, no. 3, 1963, 88, abstract 3D593 ("Uspekhi nauchn. fotogr.", 1962, v. 8, 263 - 272)

TEXT: Methods are considered for calibrating color densitometers and for measuring the photographic effect on multilayer materials; they constitute one of the sections of the general NIKFI sensitometric testing for color photographic materials on a transparent backing. It is proposed to measure the photographic effect in units FESP (VESP). Definitions are given of the fundamental quantities of color photographic sensitometry, and methods for their experimental measurements are indicated.

D. Balabukha

[Abstracter's note: Complete translation]

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BARANOV, G.S.; KATSENELENBOGEN, E.D.; KRUPENIN, L.K.

Standardization of the method of a comprehensive sensitometric testing of multiple-layer color materials. Zhur.nauch.i prikl. fot.i kin. 8 no.1:71-74 Ja-F '63. (MIRA 16:2)
(Color photography--Equipment and supplies)
(Photographic sensitometry--Standards)

KHUPENIN, L.Ya.; ZAYTSEVA, K.Ya., redaktor; GLADKIKH, N.N., tekhnicheskiy redaktor.

[The V-501 propeller for Yak-12 and Yak-18 airplanes; design, servicing and repair] Vozdushnyi vint V-501 dlia samoletov IAk-12 i IAk-18; konstruktsiia, obsluzhivanie i remont. Moskva, Gos. izd-vo oboronnoi prom., 1954. 112 p. [Microfilm] (MLRA 7:11)
(Propellers, Aerial)

VYRODOV, N.V.; KRUPENIN, Z.A.; KOSOVSKIY, V.L.

Cutter head for cutting racks of self-centering three-jaw lathe chucks. (MLRA 6:11)
Stan.i instr. 24 no.10:33 O '53.
(Gear-cutting-machines)

KRUPENIN, Z.A.; MOTS, A.A.

Small automatic machine-tool unit for machining flange-type parts.
Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.
no.12:53 '63. (MIRA 17:3)

KRUPENIN, Zinoviy Abramovich; KOSOVSKIY, Volya L'vovich; SOKOLOVA, V.Ye., inzh., ved. red.; KOSTROMIN, F.P., kand. tekhn. nauk, red.; SOROKINA, T.M., tekhn. red.

[High-production attachments for machining on lathes]Vysokoproizvoditel'nye prisposobleniia dlia tokarnykh rabot. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 51 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 10. No.M-58-277/42) (MIRA 16:2)

(Lathes--Attachments)

VESELOV, M.P.; KRUPENINA, A.A.; BLINOVA, L.A.

Studies on the bactericidal and sporocidal properties of dichlorohydantoin and its derivatives. Zhur.mikrobiol.epid. i immun. 30 no.4:111-116 Ap '59. (MIRA 12:6)

1. Iz Voyenno-meditsinskoy ordena Lenina akademii imeni S.M. Kirova.

(HYDANTOINS, effects,
dichlorohydantoin & deriv., bactericidal & sporogenic eff. (Rus))

OSIPYAN, V.T.; KRUPENINA, A.A.

Methodology for differentiating the bactericidal and bacteriostatic action of preparations of the quaternary ammonium compound group. Lab. delo. no.1:43-45 '65. (MIRA 18:1)

1. Voyenno-meditsinskaya ordena Lenina akademiya im. S.M. Kirova, Leningrad.

VOROB'YEV, S.A., doktor sel'skokhozyaystvennykh nauk, prof.; KRUPENINA, A.P., kand. sel'skokhozyaystvennykh nauk; LOSHAKOV, V.G., aspirant

Postharvest crops and the fertility of turf-Podzolic soils. (MIRA 17:1)
Izv. TSKHA no.4:16-32 '63.

KRUPENINA, A. P.

"Presowing Treatment of Soil to be Used for Spring Grain Crops in the Central Region of the Nonchernozem Belt." Cand Agr Sci, Moscow Agricultural Acad imeni Timiryazev, Moscow, 1954. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

VOROB'YEV, S.A., prof., doktor sel'skokhozyaystvennykh nauk; KRUPENINA, A.P., kand.sel'skokhozyaystvennykh nauk

Intermediate crops are an additional possibility for increasing the yield of farm crops. Izv.TSKhA no.6:45-56 '59. (MIRA 13:6)

(Rotation of crops)

MALAN'IN, M.I.; KRUPENINA, A.P.; CHERKASHINA, M.M.; RUMYANTSEVA, V.V.; SHVETSOV, G.F., red.; SERGEYEVA, N.A., red. izd-va; GUROVA, O.A., tekhn. red.

[Concentration of diamond-bearing bedrock and sand] Obogashchenie almazosoderzhashchikh koremykh porod i peskov. By M.I.Malan'in i dr. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 242 p. (MIRA 14:10)
(Diamond mines and mining) (Ore dressing)

KRUPENINA, Anna Petrovna, kand. sel'khoz. nauk; LOSHAKOV, Vladimir Grigor'yevich; VOROB'YEVA, S.A., prof., red.; SHULEYKIN, P.A., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Soil and postharvest crops] Zemlia i promezhutochnye kul'tury. Moskva, Izd-vo "Znanie," 1963. 46 p. (Narodnyi universitet kul'tury: Sel'skokhoziaistvennyi fakul'tet, no.4) (MIRA 16:3)

(Field crops)

VOROB'YEV, S.A., prof.; KRUPENINA, A.P., kand. sel'skokhoz. nauk; LOSHAKOV, V.G., kand. sel'skokhoz. nauk; VOZNESENSKIY, K.N.; KUDIN, V.I.; KOBLEV, Yu.M.; YEFIMOV, I.T., kand. sel'skokhoz. nauk; MASANDILOV, E.S., kand. sel'skokhoz. nauk; NAFTALIYEV, Sh.P., aspirant; PANASYUK, B.A., aspirant

Concentration of crop rotations. Zemledelie 27 no.7:55-70 Jl '65. (MIRA 18:7)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva (for Vorob'yev, Krupenina, Loshakov). 2. Glavnyy agronom po kormam Ministerstva sel'skogo khozyaystva Tadzhikskoy SSR (for Voznesenskiy). 3. Brestskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kudin). 4. Adygeyskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Koblev). 5. Krasnodarskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Yefimov). 6. Dagestanskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Naftaliyev). 7. Ukrainskaya sel'skokhozyaystvennaya akademiya (for Panasyuk).

DOBATKIN,V.I., kandidat tekhnicheskikh nauk; KRUPENINA,K.N.; SEMENOVA,A.I.

Properties of pressed D16 aluminum alloy shapes depending on heat treatment conditions. Trudy MATI no.23:86-101 '54. (MLRA 8:11)
(Aluminum alloys) (Metals--Heat treatment)

LANDO, L.I.; ZAKHAR'IN, Yu.L.; KRUPENINA, L.B.

Serotonin content of the blood of psychiatric patients and its changes in the process of treatment. Zhur. nevr. i psikh. 62 no.1:99-107 '62. (MIRA 15:4)

1. Laboratoriya biokhimii (zav. - L.I.Lando) Nauchno-issledovatel'skogo instituta psikhiatrii (dir. - prof. D.D.Fedotov) Ministerstva zdravookhraneniya RSFSR, Moskva.
(SEROTONIN) (SCHIZOPHRENIA) (EPILEPSY)
(CEREBROVASCULAR DISEASES)

L 05307-67 EWT(m)

ACC NR: AR6032312 SOURCE CODE: UR/0081/66/000/010/M027/M027

26
B

AUTHOR: Zubrilov, S. P.; Krupenina, N. V.

TITLE: Study of the effect of ultrasonic treatment of cement mortar on the strength of concrete

SOURCE: Ref. zh. Khimiya, Part II, Abs. 10M225

REF SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 83, 1965, 117-123

TOPIC TAGS: cement, concrete, ultrasonics, concrete strength, mortar, cement strength, ultrasonic vibration

ABSTRACT: Concrete made with cement, subjected to ultrasonic treatment at a frequency of 20 kc, increases in strength by 71% in two days, by 93% in three days, and by 53% in seven days compared to the strength of control samples. After ultrasonic treatment, ordinary cement acquires the property of quick hardening. The greatest increase in strength is observed after a three-min ultrasonic treatment and a water cement ration of 0.5. The increase in strength is proportional to the increase in intensity of the ultrasonic vibrations within the 4.8 to 8.9 kw range. A decrease in W/C ratio below 0.5 sharply reduces the cavitation zone and a treatment of cement below that ratio is undesirable due to the strong absorption of ultrasound. The direction of the ultrasonic

Card 1/2

L 08387-67
ACC NR: AR6032312

vibrations does not substantially influence the cavitation effect, nor does the presence of ethyl ether, calcium chloride, or potassium carbonate substantially increase the size of the cavitation zone. The addition of a 5% solution of $CaCl_2$ in combination with ultrasonic treatment increases the strength of cement by 20%. [Translation of abstract]

SUB CODE: 07/

Card 2/2 LS

L 08387-67 EWT(m)

ACC NR: AR6032312 SOURCE CODE: UR/0081/66/000/010/M027/M027

26

AUTHOR: Zubrilov, S. P.; Krupenina, N. V.

TITLE: Study of the effect of ultrasonic treatment of cement mortar on the strength of concrete

SOURCE: Ref. zh. Khimiya, Part II, Abs. 10M225

REF SOURCE: Tr. Leningr. in-ta vodn. transp., vyp. 83, 1965, 117-123

TOPIC TAGS: cement, concrete, ultrasonics, concrete strength, mortar, cement strength, ultrasonic vibration

ABSTRACT: Concrete made with cement, subjected to ultrasonic treatment at a frequency of 20 kc, increases in strength by 71% in two days, by 93% in three days, and by 53% in seven days compared to the strength of control samples. After ultrasonic treatment, ordinary cement acquires the property of quick hardening. The greatest increase in strength is observed after a three-min ultrasonic treatment and a water cement ration of 0.5. The increase in strength is proportional to the increase in intensity of the ultrasonic vibrations within the 4.8 to 8.9 kw range. A decrease in W/C ratio below 0.5 sharply reduces the cavitation zone and a treatment of cement below that ratio is undesirable due to the strong absorption of ultrasound. The direction of the ultrasonic

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ACC NR: AR6032312

vibrations does not substantially influence the cavitation effect, nor does the presence of ethyl ether, calcium chloride, or potassium carbonate substantially increase the size of the cavitation zone. The addition of a 5% solution of $CaCl_2$ in combination with ultrasonic treatment increases the strength of cement by 20%. [Translation of abstract]

SUB CODE: 07/

Card 2/2 LS

KHUPENINA, M.M.; FEL'DMAN, A.Ya.; ZABELOTSKIY, L.M.; BUBNOV, P.I., red.; SEGAL', N.M., red.; DMITRIYEVA, N.I., tekhn. red.

[Yarn beam frame without tensioning tent for ribbon looms] Besshatrovaia navoinaia rama k lentotkatskomu stanku. Moskva, Gos. nauchno-tekhn. izd-vo M-va legkoi promyshl. SSSR, 1956. 34 p. (MIRA 11:10)

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(Looms)

KHUDENSKIY, V.I.

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KRUPENINA, V.I.

Effect of plague bacillus toxin on the respiratory function of the blood and some hemodynamic indices. Biul.eksp.biol.i med. 57 no.5:33-36 My '64. (MIRA 18:2)

1. Biokhimicheskiy otdel Irkutskogo nauchno-issledovatel'skogo protivochumnogo instituta Sibiri i Dal'nego Vostoka (dir. - prof. I.V.Domaradskiy). Submitted January 23, 1963.

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(MIRA 9:9)

1.Vyazemskiy myasokombinat.
(Meat grinders)

KRUPENKO, S., Senior Vet. A. V. BUROV, ET AL.

Veterinary Department, Ministry of Agriculture, Buriat-Mongol ASSR

"On zooveterinary servicing of consolidated kolkhozes."

SO: Veterinariya 28(9), 1951, p. 5

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KRUPENKO, S. S. "The Problem of the Prophylaxis of Gastrointestinal Diseases of Calves on the Kolkhozes in the Selenga CPR Region of Buryat Mongolia." Moscow Veterinary Academy, Min Higher Education USSR. Moscow, 1955. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN AGRICULTURAL SCIENCE).

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KRUPENKO, S.S., kand. veterin. nauk; BANAKOVA, L.A.

Therapy and prophylaxis of leptospirosis in calves using a chinosol-embryonic tissue prepartion. Veterinariia 39 no.8:27-28 Ag '62. (MIRA 17:12)

1. Glavnyy veterinarnyy vrach sovkhoza "Vasil'kogo", Kaliningradskaya oblast' (for Banakova).

VEL'TMAN, R.P.; ZHUKOVSKIY, L.I.; PONOMAREV, L.Ye.; VEMYAN, A.Zh.; BENENSON, M.P.; ZALMANENOK, V.S.; KRUPENKO, T.I.; BABICH, Z.Ye.; GUTMAN, L.B.; ALIMOV, T.U.; YAKUNIN, P.N.; KRYZHANOVSKAYA, N.L.; AKSEL'DORF, A.L.; MUSINA, S.A.; KLEYF, A.D.; LUTSEVICH, E.V.; LEVINSON, O.S.; TURBINA, N.S.

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(MIRA 18:11)

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VEL'TMAN, R.P.; (Continued) Card 2:

11. Gematologicheskaya klinika TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi, Moskva (for Turbina).

KRUPENKOV, Nikolay Filippovich; SHVETSOVA, R.V., red.; SOKOLOVA, S.I., tekhn. red.

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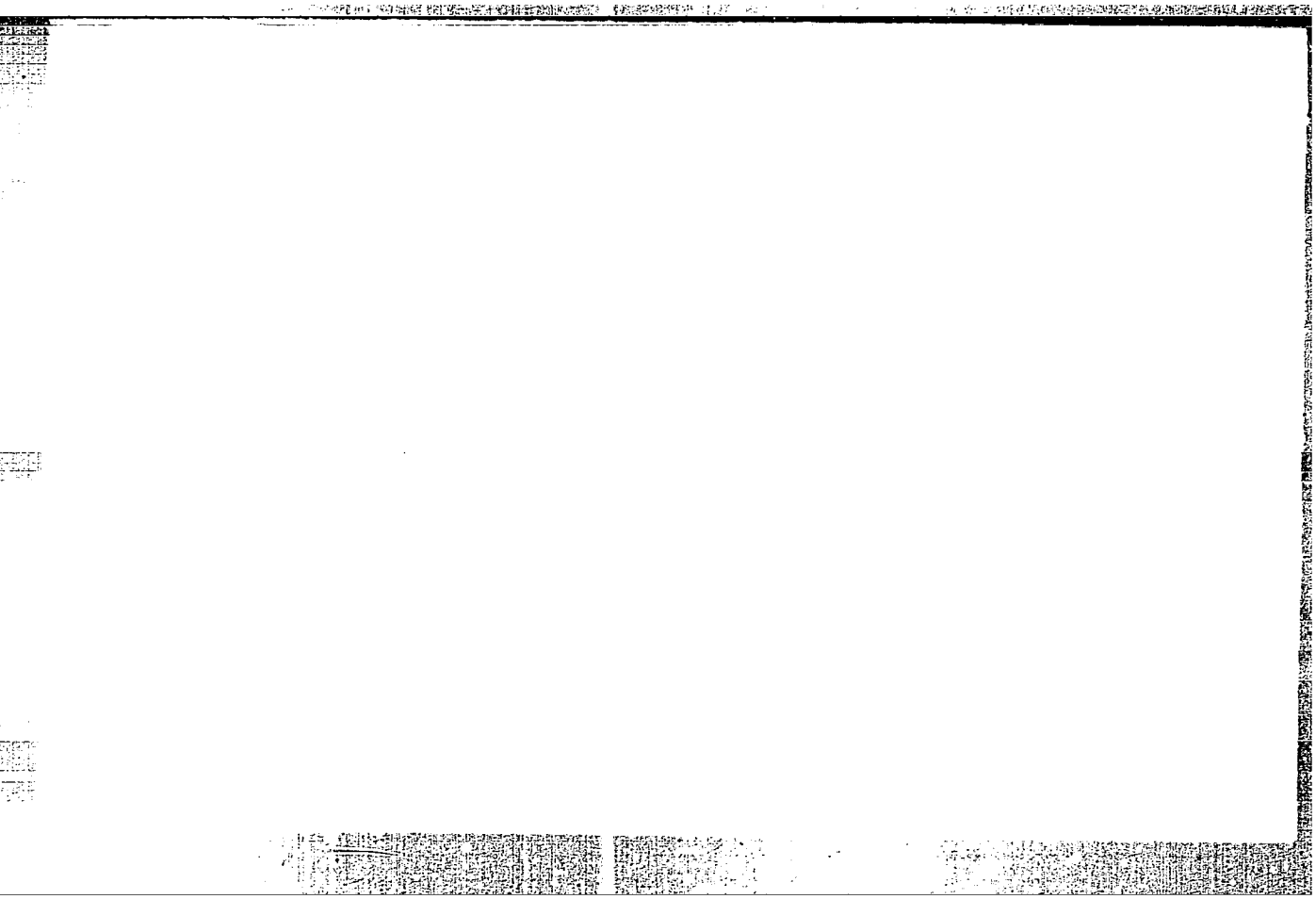
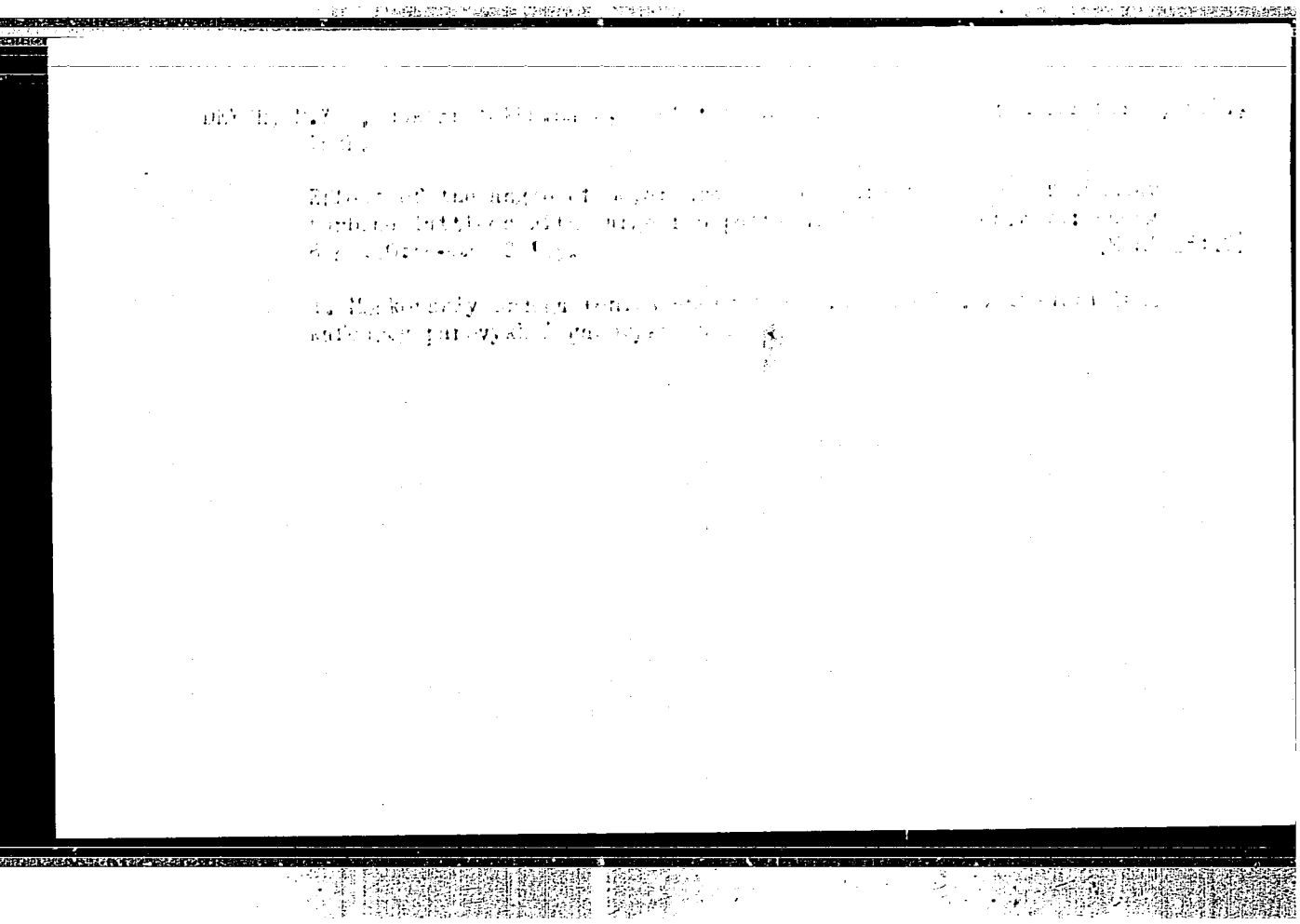
KISELEV, L.Ye., inzh.; KRUPENNIKOV, B.N., inzh.

Studying the last stages of condensation steam turbines.
Energomashinostroenie 8 no.3:26-29 Mr '62. (MIRA 15:2)
(Steam turbines--Testing)

[redacted]

[redacted] Laboratory of Steam and Gas [redacted] over
[redacted] investigation [redacted]
[redacted] with [redacted] = 2.5 at various angles of [redacted] peripheral
[redacted] The tests were conducted in a [redacted] wind tunnel in air
at a maximum subsonic speed of M = 0.84. A grill with a variable chord and
[redacted]





KRUPENNIKOV,G.A. 600

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SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nyk Statey, No. 20, 1949).

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Translation W-26548, 2 Jun 53

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2. US R (600)

4. Coal-Mining Machinery

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Vol. XV, No.2
Feb. 1954
Natural Solid
Fuels: Winning

989. [illegible] ... [illegible] PRODUCTION OF [illegible]IZED SUPPORTS. [illegible] ... [illegible]), Aug. 1953, 33-37). [illegible] to the Institute of [illegible] ... [illegible], U.S.S.R., by S.B. Ostrovskii, A.D. [illegible], A.I. [illegible], V.I. [illegible], S.N. Lipkovich, G.A. [illegible] and [illegible] ... research and design, are summarized. (I).

KRUPENNIKOV, G.A.; TRUMBACHEV, V.F., kandidat tekhnicheskikh nauk.

Experimental study by the optical method of mine pressure with mechanized timbering. Ugol' 29 no.3:15-20 Mr '54. (MLRA 7:3)

1. PNIUI (for Krupennikov). 2. Institut gornogo dela Akademii nauk SSSR (for Trumbachev).
(Mine timbering) (Mine surveying) (Earth pressure)

KRUPENNIKOV, G.A.

DAVIDYANTS, V.T.; KRUPENNIKOV, G.A.; KUZNETSOV, G.N.; PANOV, A.D.

Basic trends of an over-all study of the operation of mechanized supports. Ugol' 29 no.8:34-40 Ag '54. (MLRA 7:8)

1. DonUGI (for Davidyants). 2. PNIUI (for Krupennikov). 3. Vsesoyuznyy nauchno-issledovatel'skiy markscheyderskiy institut (for Kuznetsov). 4. Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut (for Panov).
(Mine timbering)

TRUMBACHEV, Vladimir Fedorovich, kandidat tekhnicheskikh nauk; KRUPENNI-KOV, O.A., redaktor; RATNIKOVA, A.P., redaktor; MADEINSKAYA, A.A. tekhnicheskiy redaktor.

[Investigating pressure in mines by the optical method] Issledovanie gornogo davleniia v ochistnykh vyrabotkakh opticheskim metodom. Moskva, Ugletekhizdat, 1955. 97 p. (MLRA 8:8)
(Earth pressure)

KRUPENNIKOV,G.A.; TRUMBACHEV,V.F., kandidat tekhnicheskikh nauk

Selecting efficient ways of interaction for mechanized timbering and the immediate roof. Ugol' 30 no.7:15-22 Jl'55.
(MLRA 8:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut (for Krupennikov) 2. Institut gornogo dela Akademii nauk SSSR (for Trumbachev).

(Mine timbering)

KRUPENNIKOV, G.A.

Evidence of rock pressure in vertical mine shafts. Shakht. stroi. no.8:8-12 Ag '57. (MLRA 10:9)
(Subsidences (Earth movements)) (Mine timbering)

KRUPENNIKOV, G.A.

Experimental method of determining stress on vertical shaft linings. Shakht. stroi. no.12:1-4 D '57. (MIRA 11:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Shaft sinking)

SOV/124-58-7-8054

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 108 (USSR)

AUTHOR: Krupennikov, G.A.

TITLE: An Experimental Method of Determining the Loads on Supporting Timbering in Vertical Mine Shafts (Eksperimental'nyy metod opredeleniya nagruzok na krep' vertikal'nykh stvolov)

PERIODICAL: Shakhtnoye str-vo, 1957, Nr 12, pp 1-5

ABSTRACT: Bibliographic entry

1. Mining engineering--USSR 2. Underground structures--Design
3. Wood--Load distribution 4. Mathematics--Applications

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KRUPENNIKOV, G.A.

AVERSHIN, S.G., prof., dokt.tekhn.nauk; ANAN'IN, G.P., dotsent, kand.tekhn. nauk; BARANOV, A.I., dotsent, inzh.; BERLIN, A.Ye., inzh.; BOCHKAREV, V.G., kand.tekhn.nauk; BUTKEVICH, R.V., kand.tekhn.nauk; VESELOVSKIY, V.S., prof.,doktor tekhn.nauk; VESKOV, M.I., kand. tekhn.nauk; VOL'KENAU, A.V., kand.tekhn.nauk; GAMKAVI, S.M., kand.tekhn.nauk; GORBACHEV, T.F.; DAVIDYANTS, V.T., kand.tekhn.nauk; DMITRIYEV, M.F., kand.tekhn.nauk; DOBROVOL'SKIY, V.V., kand.tekhn.nauk; DUKALOV, M.F., kand.tekhn.nauk; ZAYTSEV, N.A.; ZARANKIN, P.S., inzh.; ZVYAGIN, P.Z., dotsent, kand.tekhn.nauk; IL'SHTEYN, A.M., kand.tekhn. nauk; KILYACHKOV, A.P., dotsent, kand.tekhn.nauk; KIRICHENKO, I.P., inzh.; KRUPENNIKOV, G.A., kand.tekhn.nauk; KUZNETSOV, S.T., kand. tekhn.nauk; KUCHERSKIY, L.V., kand.tekhn.nauk; LINDENAU, N.I., inzh.; LIPKOVICH, dotsent, kand.tekhn.nauk; LOKSHIN, B.S., kand.tekhn.nauk; MURATOV, M.L., dotsent, kand.tekhn.nauk; MUCHNIK, V.S., prof., doktor tekhn.nauk; NAYDYSH, A.M., dotsent, kand.tekhn.nauk; NEKRASOVSKIY, Ya.E., prof., doktor tekhn.nauk; NEKHAYEV, G.A., inzh.; NUROK, G.A., prof., doktor tekhn.nauk; OVINOV, M.I., inzh.; PORTNOV, A.A., inzh.; PROSKURIN, V.V., dotsent, kand.tekhn.nauk; RUDNEV, B.A., inzh.; SAPITSKIY, K.F., kand.tekhn.nauk; SELETSKIY, R.A., dotsent, kand.tekhn.nauk; SEMENOV, A.P., kand.tekhn.nauk; SKAFA, P.V., inzh.; SOKIN, S.D., prof.; SUDOPLATOV, A.P., prof., doktor tekhn.nauk; TIMOSHEVICH, V.A., inzh.; FUKMAN, A.A., inzh.; CHINAKAL, N.A.; SHAKHMEYSTER, L.G., dotsent, kand.tekhn.nauk; TEKHPIGOREV, A.M., glavnyy red.; LOZNEVA, A.A., red.; NAUMKIN, I.F., red.; OSTROVSKIY, S.B., red.; PANOV, A.D., red.; STUGAREV, A.S., red.; SHELKOV, A.A.,

(Continued on next card)

AVERSHIN, S.G.---(continued) Card 2.
red.; ARKHANGEL'SKIY, A.S., kand.tekhn.nauk, red.; REZNIKOV, G.A., inzh., red.; ALESHIN, M.I., red.izd-va; KACHALKINA, Z.I., red. izd-va; PROZOROVSKAYA, V.L., tekhn.red.; NADEINSKAYA, A.A., tekhn.red.

[Mining; an encyclopedic handbook] Gornoe delo; entsiklopedicheskii spravochnik. Glav. red. A.M. Terpigorev. Chleny glav.red.: F.A. Barabanov i dr. Vol.5 [Underground coal mining] Razrabotka ugol'nykh mestorozhdenii podzemnym sposobom. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po ugol'noi promyshl. 1958. 447 p.
(MIRA 12:2)

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2. Chlen-korrespondent Akademii nauk USSR (for Zaytsev).
(Coal mines and mining)

KRUPENNIKOV, G.A., inzh.

Experimental method of determining pressure on vertical mine shaft linings. Shakht. stroi no.1:4-7 '58. (MIRA 11:2)
(Shaft sinking) (Mine timbering)

KRUPENNIKOV, G.A.

Choice of methods, rated layout, and initial data for analytic studies of rock pressure. Ugol' 33 no. 7:20-24 Jl '58. (MIRA 11:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Mining engineering)
(Earth pressure)

KRUPENNIKOV, O.A.

Initial stage of pressure development as vertical mine shaft linings in flat-gradient rocks. Shakh. stroi. no.1:12-16 Ja '59. (MIRA 12:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Shaft sinking)(Subsidences (Earth movements))

KRUPENNIKOV, G.A., insh.; FILATOV, M.A., inzh.

Some results of laboratory investigations of underground pressure occuring in vertical openings in flat-dipping seams. Shakht. stroi. 4 no.10:14-17 O '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut. (Mining engineering)

KRUPENNIKOV, G.A., inzh.

Research on rock pressure in vertical shafts in sloping seam beds in the Donets Basin. Shakht.stroi. 5 no.4:10-17 Ap '61. (MIRA 14:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Donets Basin--Mine timbering) (Rock pressure)

KRUPENNIKOV, G.A.; KOZEL, A.M., inzh.; FILATOV, N.A., inzh.

Approximative calcuation of loads on supports of shaft mouths. [Trudy] VNIMI no.45:204-218 '62. (MIRA 16:4)
(Rock pressure) (Mine timbering)

KRUPENNIKOV, G.A., inzh.; DROBYSHEV, V.F., inzh.; FILATOV, N.A., inzh.

Technical requirements and reference data for designing the supports for vertical shafts in the Yakovlevo Mine. Shakht. stroi. 7 no.2:10-15 F '63. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy marksheyderskiy institut.
(Kursk magnetic anomaly—Mine timbering)

KRUPENNIKOV, P. M.

Krupennikov, P. M. - "The militant antiMorganist Professor S. N. Kovalevskiy," Trudy Alma-At. vet.-zoo-tekhn. in-ta, Vol V, 1948, p. 53-58

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

KRUPENNIKOV, P. N.

Krupennikov, P. N. "Means of advancing swine breeding in the southern rayons of Kazakhstan," -- Author indicated in table of contents -- Trudy /Alma-At. vet.-zootekhn. in-ta, Vol. V, 1948, p. 58-60

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

LIKHTARNIKOV, Ya.M.; KHUPENNIKOV, S.S., inzhener, redaktor; DUGINA, N.A., tekhnicheskiy redaktor.

[Manufacturing steel construction elements for traveling cranes] Iz opyta izgotovleniia stal'nykh konstruktsii kranov-peregruzhatelei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1954. 21 p. (Cranes, derricks, etc.) (MLRA 8:1)

KRUPENNIKOV, S.S., inzhener; KRYLOV, M.P., inzhener; DOL'NIK, R.M., inzhener.

Erecting precast reinforced concrete elements of bunker scaffolds of blast furnaces. Stroi.prom. 34 no.2:9-14 F '56. (MLRA 9:5)

1. Trest Uralstal'konstruktsiya.
(Blast furnaces) (Precast concrete construction)

KRUPENNIKOV, S.S., dotsent; SPERANSKIY, B.A., dotsent; BOGDANOV, S.I., nauchnyy red.; LYTKINA, L.S., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Assembling precast reinforced concrete construction elements in the Urals] Iz opyta montazha sbornykh zhelezobetonnykh konstruktsii na Urale. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1959. 51 p. (MIRA 13:3)
(Ural Mountain region--Precast concrete construction)
(Cranes, derricks, etc.)

KRUPENNIKOV, S. S., Cand. Tech. Sci. (diss) "Report on Special Methods of Installation of Complex Building Elements in Industrial Construction (Development and Introduction," Moscow, 1961, 62 pp. (Acad. of Construc. and Architec. USSR) 200 copies (KL Supp 12-61, 269).

KRUPENNIKOV, S.S., dots.; SUKHANOV, V.P., inzh.; SHMYKOV, A.A., inzh.

Manufacture and assembly of the precast reinforced-concrete elements of the bunker trestle of a blastfurnace stock yard. Trudy NII prom. zdan. i sóor. no.2:36-56 '61. (MIRA 15:6)
(Precast concrete construction) (Chelyabinsk--Blast furnaces)

KRUPENNIKOV, S.S., laureat Stalinskoy premii, dotsent; BYCHKOV, M.I., kand.tekhn.nauk, dotsent; LIZAREV, A.D., inzh.

Engineering characteristics of reinforced concrete girders with multiple-series welded reinforcements for roofs of industrial buildings. Trudy NII prom.zdan.i soor. no.5:5-12 '61. (MIRA 15:4)

(Reinforced concrete construction) (Beams and girders)

KRUPENNIKOV, S.S., inzh., red.; SMIRNOV, V.I., nauchnyy red.;
YUDINA, L.A., red. izd-va; TEMKINA, Ye.L., tekhn. red.

[Design and construction of industrial buildings and structures] Opyt proektirovaniia i stroitel'stva promyshlennykh zdanii i sooruzhenii; sbornik trudov. Pod red. S.S.Krupennikova. Moskva, Gosstroiizdat, 1962. 223 p. (MIRA 15:6)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut po stroitel'stvu, Sverdlovsk. 2. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Smirnov).
(Industrial buildings)

SPERANSKIY, B.A., kand. tekhn. nauk; KRUPENNIKOV, S.S., kand. tekhn. nauk; KAPLAN, A.A., inzh.; TAMPLON, F.F., inzh.

Using prestressed metal beams for roofs. Prom. stroi. 41 no.4:37-41 Ap '64. (MIRA 17:9)

STREL'NIKOV, N.P.; BESPALOV, Ye.M.; SOKOLKIN, A.F.; SHPINEV, V.F.; KRUPENNIKOV, S.S.; SPEKTOR, M.D.

Some conclusions from the experiences of building a pipe rolling mill. Prom.stroi. 42 no.11:6-9 N '64. (MIRA 18:8)

1. Trest Uraltyazhtrubstroy (for Strel'nikov, Bespalov, Sokolkin). 2. Upravleniye kapital'nogo stroitel'stva Pervoural'skogo novotrubnogo zavoda (for Shpinev). 3. Uralpromstroyniiproyekt (for Krupennikov, Spektor).

S/137/62/000/012/063/085
A006/A101

AUTHORS: Chirikov, V. T., Krupennikov, V. S., Moiseyeva, M. I.

TITLE: Low-carbon chrome-tungsten carburizing heat-resistant steels

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 130, abstract 12I801 ("Tr. N.-i. i eksperim. in-ta podshipnik. prom-sti, 1960, 1 (21), 3 - 14)

TEXT: The authors studied heat-resistant steel grades 10 Х4 В 19 Ф (10Kh4V19F), 15 Х 4 В 8 Ф (15Kh4V8F), 15 Х 4 В 18 Ф (15Kh4V18F) and 3 Х 2 В 8 (3Kh2V8). It is recommended to use the aforementioned carburizing steels for deforming and cutting tools, rings, heat-resistant bearings and other parts operating at up to 400°C. The following optimum content of components is recommended (in %): C 0.2 - 0.3, V 1, W 10 - 18, Cr 4. An increase of the indicated C amount raises the hardness of the part core as a result of the martensite transformation of austenite during the tempering process. A reduction of the C amount < 0.15% in steel containing > 18% W, leads to dispersion hardening of the core at high-temperature tempering, and to losses in ductility. Best results are obtained

Card 1/2

Low-carbon chrome-tungsten carburizing...

by the heat treatment of the investigated steels according to the following conditions: carburizing at 930 - 1,050°C to a depth determined by the purpose of the part; quenching from 1,150 - 1,250°C; triple tempering at 500 - 600°C depending upon the W and C content in the steel.

M. Bronfin

[Abstracter's note: Complete translation]

Card 2/2

ACCESSION NR: AP4009946 S/0186/63/005/006/0656/0660

AUTHOR: Tsitsishvili, G. V.; Krupennikova, A. Yu.

TITLE: Strontium ion sorption on a sodium molecular sieve

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ABSTRACT: New information has been obtained in the investigation of the ion-exchange properties of synthetic zeolite by the radioactive indicator method, the results of the latter having been compared to those of the simultaneous chemical control method. The overwhelming effect of the carrier on the adsorption percent of the radioactive isotope can be judged from the absorption of the Sr^{2+} ions from various solutions of stable strontium concentrations as determined by a Sr^{90} indicator. When the concentration is 0.05 below normal, practically all of the strontium is absorbed and the activity of the

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solution after the experiment is determined by the presence of yttrium-90 whose sorption is inhibited by the further dilution of the strontium nitrate solution. The experimental data based on strontium ion absorption reveal that the molecular sieve in the form of sodium is a cation-exchange type adsorbent with a high absorption capacity. The strontium absorption by Na-zeolite can be determined satisfactorily by radiometric and chemical analysis. The two methods complement one another, and can be used for mutual control purposes. "The authors are grateful to Ye. G. Davitashvili, M. M. Rubinshteyn and Ts. A. Gedzhadze for their assistance in describing the objects under investigation." Orig. art. has: 1 figure, 2 formulas and 6 tables.

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